

ECONOMIC & RURAL DEVELOPMENT COMMITTEE

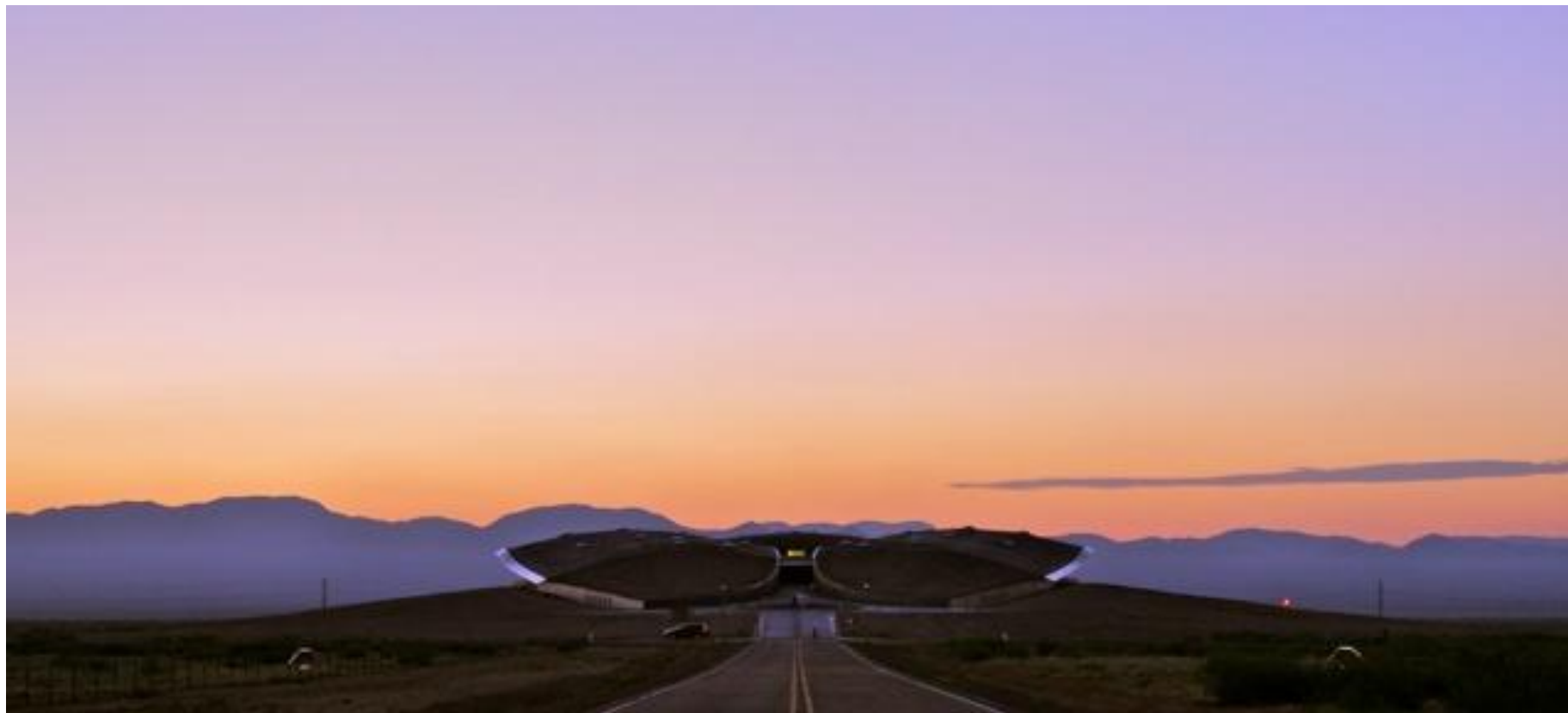
August 16, 2012

CHRISTINE ANDERSON
Executive Director
New Mexico Spaceport Authority



SPACEPORTAMERICA

where we offer the world an invitation to space



join us

SPACEPORT AMERICA CUSTOMERS

HORIZONTAL LAUNCH CUSTOMERS



VERTICAL LAUNCH CUSTOMERS



where the spirit to “innovate, create and inspire” thrives



STUDENTS



TOURISTS

“VIRGIN GALACTIC GATEWAY TO SPACE”



GATEWAY EASTERN FAÇADE



GATEWAY AND SOC



GATEWAY NORTHERN PROFILE



WK2/SS2 INSIDE GATEWAY



GOV. MARTINEZ AND BRANSON DEDICATE “VIRGIN GALACTIC GATEWAY TO SPACE”



GATEWAY AT NIGHT



SPACEPORT OPERATIONS CENTER



COMMUNICATIONS TOWER



AUTOMATED WEATHER OBSERVING SYSTEM



SPACEPORT UTILITY INFRASTRUCTURE



WASTEWATER TREATMENT PLANT



FUEL STORAGE DEPOT



1.3M GAL WATER STORAGE & BOOSTER STATION

SPACEWAY 16-34





CONSTRUCTION STATUS

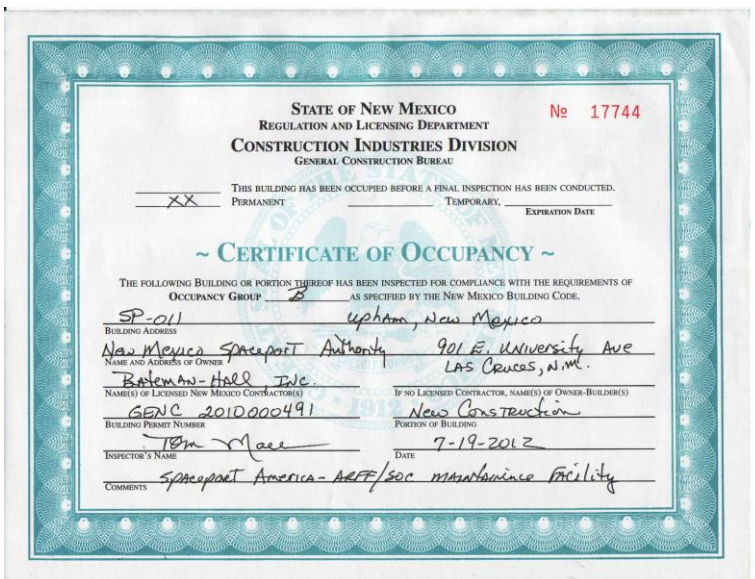
- **PHASE 1 CONSTRUCTION 99% COMPLETE**

- ✓ Northern Road
- ✓ Permanent Power
- ✓ Water System
- ✓ Wastewater System
- ✓ Fuel Storage
- ✓ 10,000 ft Runway
- ✓ Phase 1 Internal Roads
- ✓ Spaceport Operations Center
- Virgin Galactic Gateway Building
- IT/Communications System

SPACEPORT OPERATIONS CENTER

- FINAL CERTIFICATE OF OCCUPANCY

Construction Industries Division issued C of O on July 19, 2012



STATE OF NEW MEXICO
REGULATION AND LICENSING DEPARTMENT
CONSTRUCTION INDUSTRIES DIVISION
GENERAL CONSTRUCTION BUREAU

No 17744

THIS BUILDING HAS BEEN OCCUPIED BEFORE A FINAL INSPECTION HAS BEEN CONDUCTED.
XX PERMANENT TEMPORARY EXPIRATION DATE

~ CERTIFICATE OF OCCUPANCY ~

THE FOLLOWING BUILDING OR PORTION THEREOF HAS BEEN INSPECTED FOR COMPLIANCE WITH THE REQUIREMENTS OF
OCCUPANCY GROUP B AS SPECIFIED BY THE NEW MEXICO BUILDING CODE.

BUILDING ADDRESS SP-011 Upland, New Mexico
NAME AND ADDRESS OF OWNER New Mexico Spaceport Authority 901 E. UNIVERSITY AVE LAS CRUCES, N.M.
NAME(S) OF LICENSED NEW MEXICO CONTRACTOR(S) Bateman-Hall Inc.
BUILDING PERMIT NUMBER GENC 2010000491 PORTION OF BUILDING New Construction
INSPECTOR'S NAME TBM Mace DATE 7-19-2012
COMMENTS Spaceport America - ARFF/DOC maintenance facility



GATEWAY HANGAR FOAM TEST

- FIRE MARSHALL INSPECTION

- July 9 2012
- Hangar Foam Test Passed



- PHASE 2 DESIGN / CONSTRUCTION / PRE-OPERATIONS 25% COMPLETE
 - Southern Road
 - Visitor Experience
 - Entrance & Security Plaza
 - Vertical Launch Area Build-out
 - Pre-operations (Protective, General, IT, Space Operations Svcs)
 - Spaceport Operations Center Fit-out
 - Airfield Modification

- **REVENUE DIVERSIFICATION**

Facility lease / ground rent

Aerospace User Fees

Services / Fuel / Utilities

Visitor Experience

Location / Venue Fees

Brand partnerships





SPACE OPERATIONS

- NEXT LAUNCH SCHEDULED FOR OCTOBER 10, 2012

NASA Flight Opportunity Program launch

- Will be first under the program to reach space

Primary payloads will be NASA-sponsored

Will also carry some NM student payloads



ARMADILLO AEROSPACE UPDATE

- NEXT LAUNCH SEPT

STIG-B vehicle

- Larger, higher performing variant of STIG-A

- LAUNCH WILL BE LICENSED BY
FAA

First licensed launch ever at
Spaceport America



- **FLIGHT TEST PROGRAM
PROGRESSING**

- 21 glide flights to date
- Projected commercial operations in late 2013

- **LAUNCHERONE**

- Announced July 10, 2012 at Farnborough Air Show
- Small satellite orbital launch
- Projected first flights in 2016
- CONOPS under development





VISITOR EXPERIENCE STATUS

VISITOR EXPERIENCE OVERVIEW

- **VISITOR GOALS**

- To be as close to space as possible without leaving the ground
- Participative, immersive, fun, yet educational activities

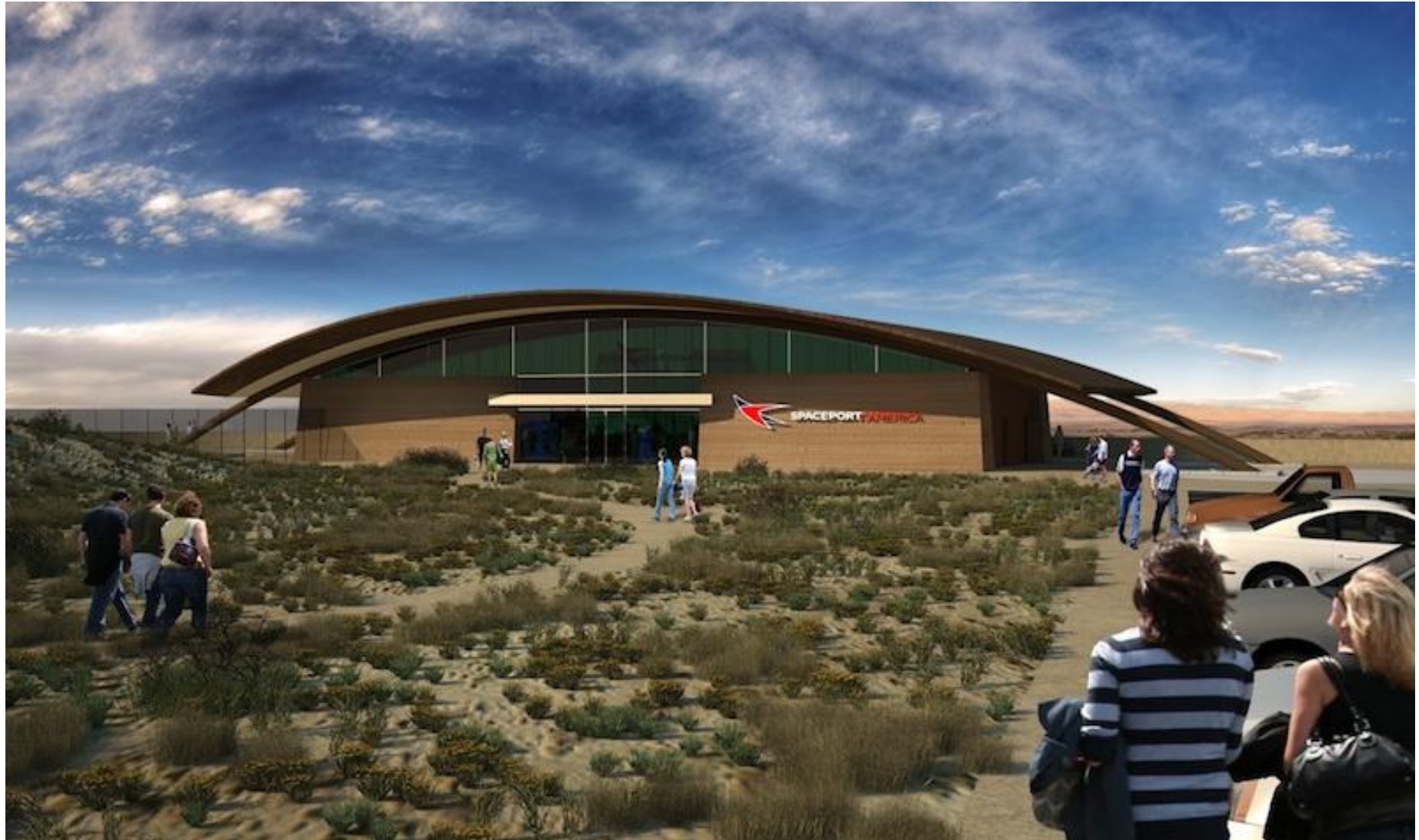
- **BUSINESS GOALS**

- Commercial success
- Maximize local economic development



Great educational opportunity for our students – coming in 2013/2014

WELCOME CENTER CONCEPT



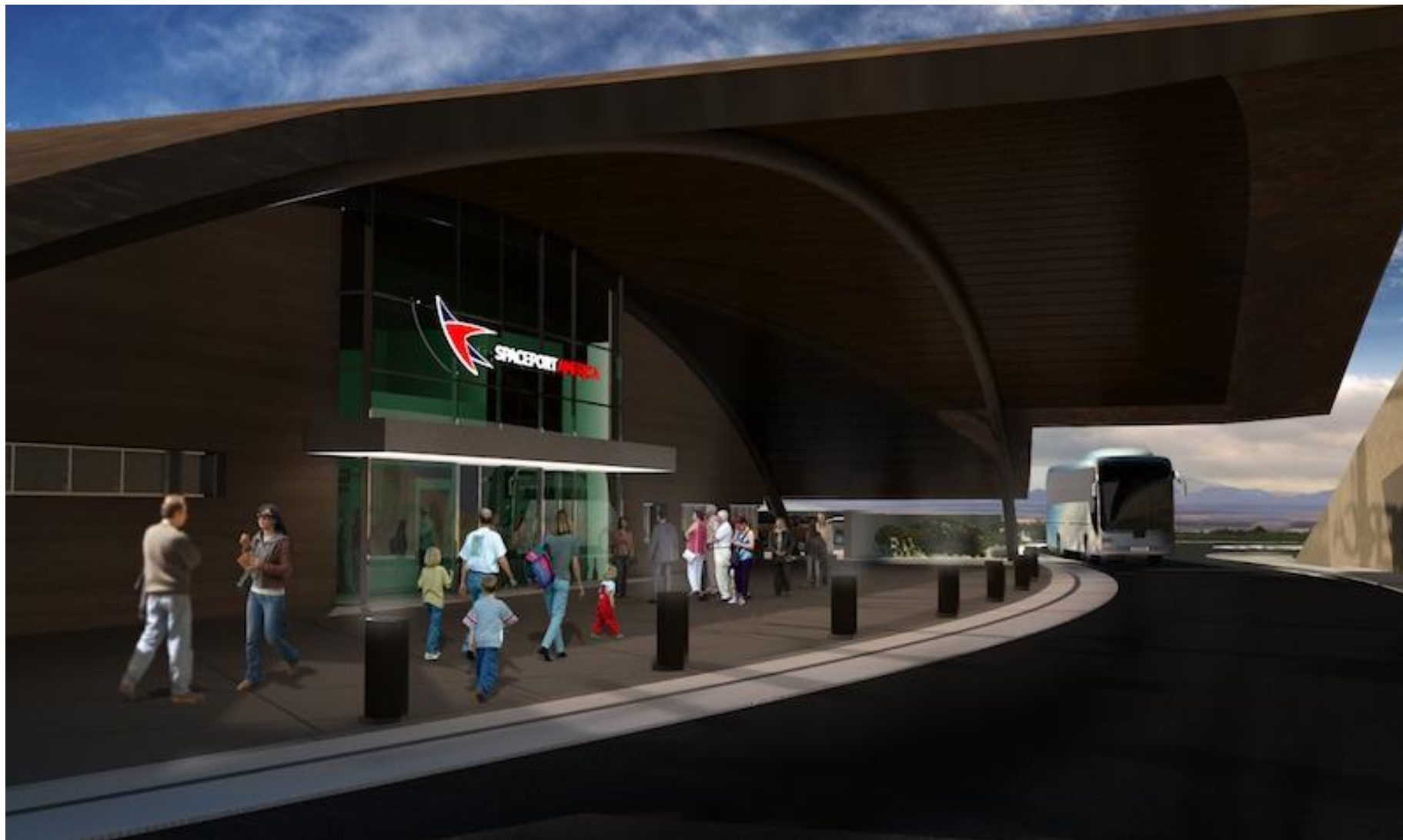
APPROACH TO SPACEPORT AMERICA



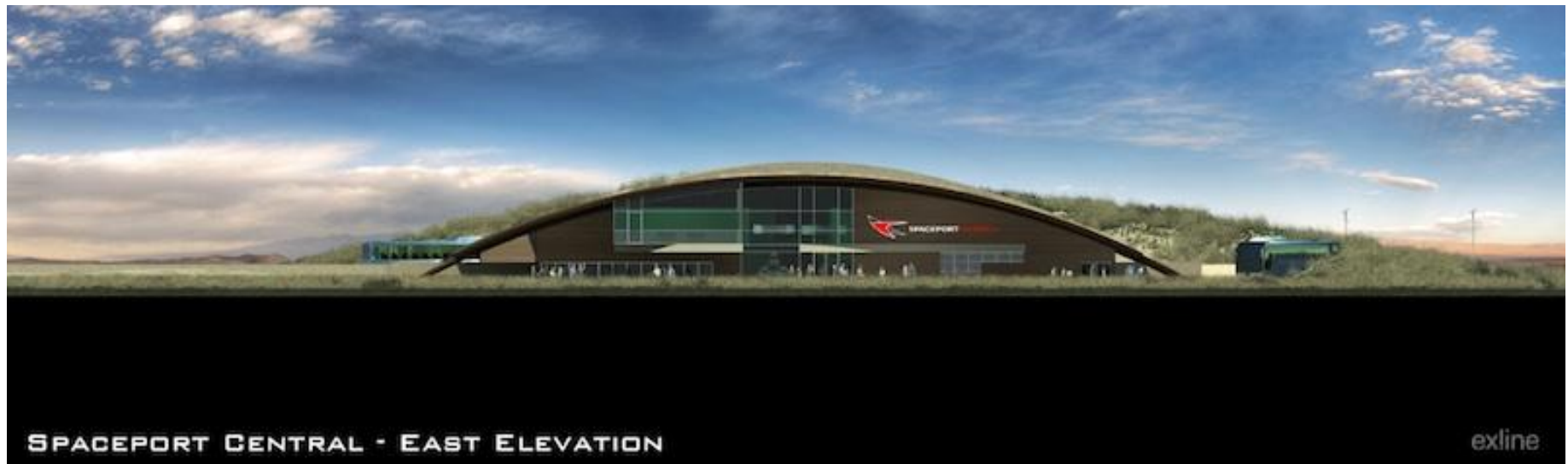
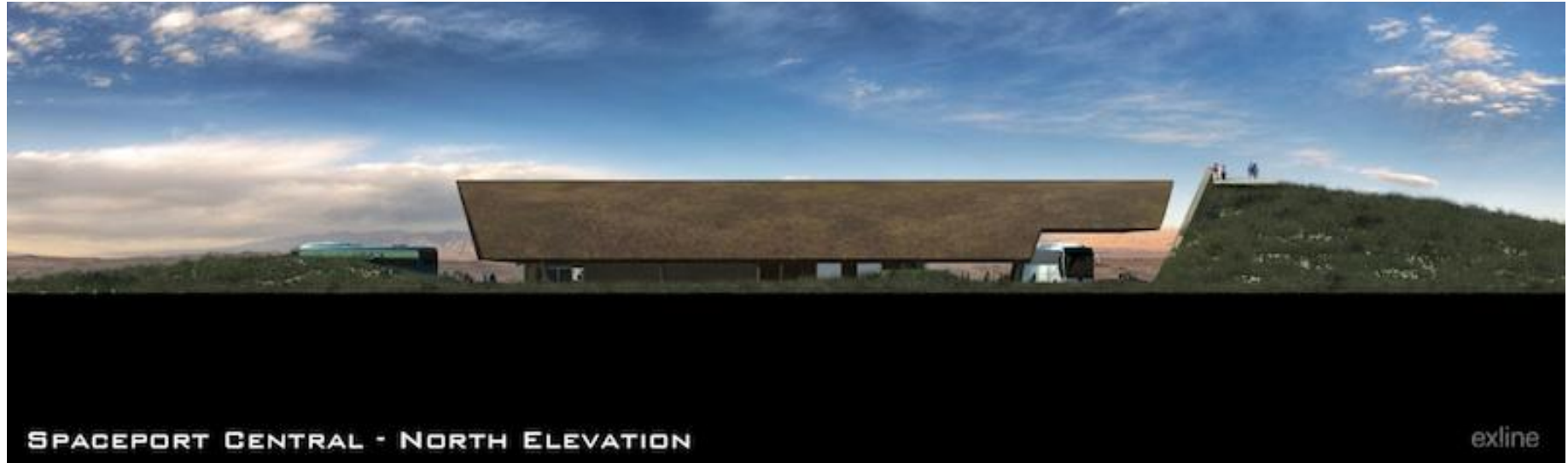
ENTRANCE & SECURITY FACILITY



ON-SITE VISITOR CENTER CONCEPT



ON-SITE VISITOR CENTER ELEVATIONS



SPACEPORT AMERICA PREVIEW TOURS

- OFFICIAL OPERATOR: FOLLOW THE SUN, INC.
- AVAILABLE NOW WED, THU, FRI, SAT, SUN
Reservations required, see www.ftstours.com
- CALL 505-897-2886



SPACEPORT-RELATED ECONOMIC DEVELOPMENT



NEAR-TERM (NOW – 2012) UNSUSTAINED GROWTH (1000+ JOBS IN NM TO DATE)

- Construction, architecture, management jobs

MID-TERM (2013 – 2014) FLUCTUATING GROWTH (EST. 564 JOBS)

- Limited spaceport operations start-up
- Tourism start-up
- VG reaches initial ops start-up

FAR-TERM (2015 – 2016) SUSTAINED GROWTH (EST. 1988 JOBS)

- Spaceport operations jobs
- At least one new major tenant
- VG reaches full ops capability

GROWTH IN U.S. COMMERCIAL SPACEPORTS

• TO DATE (9)

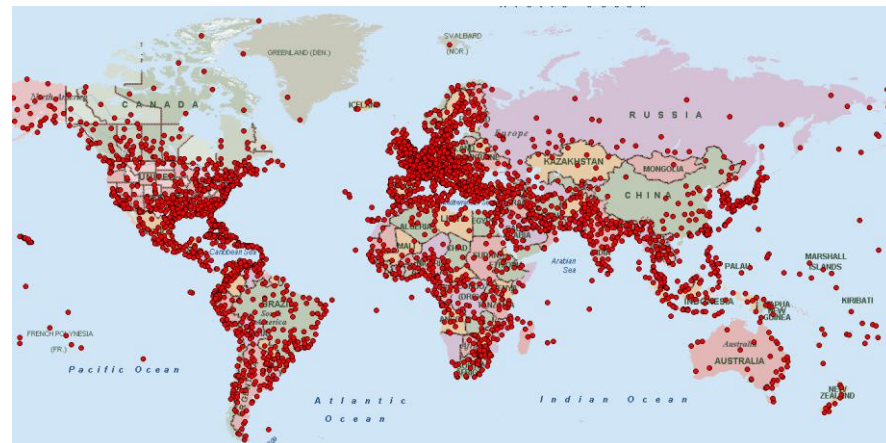
Spaceport America
Spaceport Florida
Mid-Atlantic Regional Spaceport
California Spaceport
Oklahoma Spaceport
Mojave Spaceport
Kodiak Launch Complex
Blue Origin Launch site
Cecil Field Spaceport



• PROPOSED

Front Range Airport, Colorado
Midland Airport, Texas
Titusville Airport, Florida
South Texas Spaceport
Spaceport Alabama
Hawaii Spaceport
Wisconsin Spaceport
Spaceport Indiana
Spaceport Washington
Chugwater Spaceport

TODAY



The Year 2112?

SPACE FLIGHT INFORMED CONSENT

“WHAT IS IT?”



- A WAIVER THAT FULLY INFORMS PARTICIPANTS OF RISKS OF SPACEFLIGHT PRIOR TO FLYING
- PERTAINS ONLY TO SPACEFLIGHT PARTICIPANTS
- HOLDS HARMLESS SPACEFLIGHT COMPANIES IN CASES OTHER THAN GROSS NEGLIGENCE OR MAL INTENT

Allows the participant the right to assume the risk after full disclosure prior to flying

EXTENDED SPACE FLIGHT INFORMED CONSENT LEGISLATION



- **NEW MEXICO SPACE FLIGHT INFORMED CONSENT ACT OF 2010**
Holds harmless operators, but not suppliers
Contains sunset clause in 2018
- **TX, FL, VA, CO HAVE PASSED MORE ROBUST LEGISLATION IN 2011-2012**
Holds harmless operators and suppliers
No sunset clause
- **NM MUST PASS SIMILAR ROBUST LEGISLATION TO BE COMPETITIVE**
- **COSTS TAXPAYERS NOTHING!**
- **FAILED TO PASS IN 2011 AND 2012 – MUST PASS IN 2013!**

Legislation is essential to success of Spaceport America

STATE COMPARISONS: SPACE FLIGHT INFORMED CONSENT

| <u>State</u> | <u>Operators</u> | <u>Supply Chain</u> | <u>Directors, Shareholders, Partners, Employees, etc.</u> | <u>Sunset clause</u> |
|--------------|------------------|---------------------|---|----------------------|
| CA | YES | NO | NO | NO |
| CO | YES | YES | NO | NO |
| FL | YES | YES | NO | NO |
| TX | YES | YES | YES | NO |
| VA | YES | YES | NO | NO |
| NM | YES | NO | NO | YES - 2018 |

- **XCOR AEROSPACE TO MIDLAND, TX**
 - City of Midland offers \$10M in incentives: headquarters (\$2M), hangar (\$3M) and performance incentives (\$5M)
 - \$12M in new payroll and capital investment expected over next 5 years
- **XCOR AEROSPACE ALSO TO KSC, FL**
 - 152 aerospace jobs expected over next 5 years
- **ROCKETCRAFTERS INC. TO TITUSVILLE, FL**
 - City of Titusville offers free airport facilities, land & renovations, incentives
 - 1300 aerospace jobs expected by 2018
- **SPACEX TO SOUTHERN TX**
 - \$50M in annual salaries expected in Brownsville, TX
- **TX GOVERNOR COURTING SPACE FIRMS**
 - e.g. Armadillo Aerospace, SNC, NanoRacks, Celestis, SpaceX, etc.

Note: TX and FL have robust Informed Consent legislation

QUESTIONS?



NEWSLETTER SIGN-UP FORM IN THE FOOTER OF HOMEPAGE
MONTHLY NEWSLETTER AVAILABLE IN “HAPPENINGS” MENU

Stay in touch and learn more at www.SpaceportAmerica.com